

Title (en)

HIGH VOLTAGE ELECTRICAL CONNECTOR WITH CLAD CONTACT BUTTON AND METHOD OF MANUFACTURING SAME

Title (de)

ELEKTRISCHER HOCHSPANNUNGSVERBINDER MIT PLATTIERTEM KONTAKTKNOPF UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

CONNECTEUR ÉLECTRIQUE HAUTE TENSION DOTÉ D'UN BOUTON DE CONTACT REVÊTU ET SON PROCÉDÉ DE FABRICATION

Publication

EP 4270670 A2 20231101 (EN)

Application

EP 23197633 A 20220812

Priority

- US 202163233382 P 20210816
- US 202217884886 A 20220810
- EP 22190196 A 20220812

Abstract (en)

An electrical connector (210, 310, 410) includes a first bus bar (214, 314, 414) formed of mechanically and electrically joined parallel first and second layers (236, 238, 336, 338, 436, 438), and a second bus bar (230, 330, 430). Ends of the first and second layers (236, 238, 336, 338, 436, 438) of the first bus bar (214, 314, 414) are separated so that the second electrical bus bar (230, 330, 430) may be received between them. It also includes a contact button (212, 312, 412) having a first layer of a first electrically conductive material attached to the first bus bar (314) or the second bus bar (212, 412) and a second layer formed of a second electrically conductive material clad to the first layer. It further includes a clamp assembly (234, 334, 434) including a retaining band (226, 326, 426) having a spring (228, 328, 428) configured to provide a contact force between the contact button (212, 312, 412) and the first bus bar (214, 414) or the second bus bar (312) when the second bus bar (230, 330, 430) is between the parallel first and second layers (236, 238, 336, 338, 436, 438) of the first bus bar (214, 314, 414).

IPC 8 full level

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CPC (source: EP US)

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